



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application No.	10/054,535
				Filing Date:	January 22, 2002
				First Named Inventor	Copeland
				Group Art Unit	1743
				Examiner Name	Patricia K. Bex
Sheet 1	of	5	Attorney Docket No.		97-008-X

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code ² (if known)			
JUN		3,482,082		Isreeli	12-2-1969	
		3,644,715		Holderith	2-22-1972	
		3,660,638		Oberli	5-2-1972	
		3,831,006		Chaffin, III et al.	8-20-1974	
		3,909,203		Young et al.	9-30-1975	
		3,916,157		Roulette et al.	10-28-1975	
		4,066,412		Johnson et al.	1-3-1978	
		4,133,642		Nosaka et al.	1-9-1979	
		4,135,883		McNeil et al.	1-23-1979	
JUN		4,159,875		Hauser	7-3-1979	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. 1	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Office ³	Number ⁴ Kind Code ⁵ (if known)				
JUN ↓ JUN		JP	✓ 54014287 55107957	Agency of Ind Science & Technol	8-19-1980		X
		JP	✓ 55090892	Olympus Optical Co. Ltd.	1-27-1982		X
		JP	✓ 59189590	Hitachi Ltd.	4-8-1986		X
		WO	✓ 86/02163	American Hospital Supply Corporation	4-10-1986		
		JP	✓ 59216246	Hitachi Ltd.	5-14-1986		X
		JP	✓ 60090544	Nippon Tectron Co. Ltd.	11-5-1986		X
Examiner Signature		JUN Warden			Date Considered	7/26/03	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

Substitute for form 1449A/PTO

Complete if Known



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	2	of	5	Application No.	10/054,535
				Filing Date:	January 22, 2002
				First Named Inventor	Copeland
				Group Art Unit	1743
				Examiner Name	Patricia K. Bex
				Attorney Docket No.	97,008-X

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code ² (if known)			
JUN		4,163,643		Hunter et al.	8-7-1979	RECEIVED MAR 24 2003 U.S. PATENT & TRADEMARK OFFICE
		4,281,387		Kraft et al.	7-28-1981	
		4,338,279		Orimo et al.	7-6-1982	
		4,371,498		Scordato et al.	2-1-1983	
		4,517,160		Galle et al.	5-14-1985	
		4,558,946		Galle et al.	12-17-1985	
		4,634,576		Galle et al.	1-6-1987	
		4,643,879		Hanaway	2-17-1987	
		4,647,432		Wakatake	3-3-1987	
		4,675,299		Witty et al.	6-23-1987	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JUN		JP	60090545		Nippon Tectron Co. Ltd.	11-5-1986		X
		JP	60116425		Hitachi Ltd.	12-5-1986		X
		JP	61035042		Toshiba Corp.	8-26-1987		X
		JP	61076122		Nippon Tectron Co. Ltd.	10-13-1987		X
		JP	61146064		Toshiba Corp.	1-8-1988		X
		JP	61190061		Hitachi Ltd.	2-26-1988		X
Examiner Signature		J. Warden				Date Considered	7/26/03	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231



Substitute for form 1449A/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

3

of

5

Application No.

10/054,535

Filing Date:

January 22, 2002

First Named Inventor

Copeland

Group Art Unit

1743

Examiner Name

Patricia K. Bex

Attorney Docket No.

97,008-X

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code ² (if known)			
JAN		4,678,894		✓ Shafer	7-7-1987	
		4,683,120		✓ Meserol et al.	7-28-1987	
		4,692,308		✓ Riley et al.	9-8-1987	
		4,719,087		✓ Hanaway	1-12-1988	
		4,727,033		✓ Hijikata et al.	2-23-1988	
		4,795,613		✓ Azuma et al.	1-3-1989	
		4,808,380		✓ Minekane	2-28-1989	
		4,824,641		✓ Williams	4-25-1989	
		4,844,887		✓ Galle et al.	7-4-1989	
JAN		4,847,208		✓ Bogen	7-11-1989	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JAN		JP	✓ 61205089		Toshiba Corp.	3-17-1988		X
		WO	✓ 88/02866		Serono Diagnostics Partners	4-21-1988		
		JP	✓ 61242989		Hitachi Ltd.	4-30-1988		X
		JP	✓ 61275282		Nittec Co. Ltd.	6-3-1988		X
		EP	✓ 0285851	A2	Fuji Photo Film Co., Ltd.	10-12-1988		
		EP	✓ 0290018	A2	Abbott Laboratories	11-9-1988		
JAN		JP	✓ 62202748		Toshiba Corp.	2-17-1989		X
Examiner Signature		J. Warden				Date Considered	7/26/03	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

Please type a plus sign (+) inside this box




PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
 <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Application No.	10/054,535
				Filing Date:	January 22, 2002
				First Named Inventor	Copeland
				Group Art Unit	1743
				Examiner Name	Patricia K. Bex
Sheet	4	of	5	Attorney Docket No.	97,008-X

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		Number	Kind Code ² (if known)			
JWW		4,855,110		✓ Marker et al.	8-8-1989	
		5,031,797		✓ Boris et al.	7-16-1991	
		5,073,504		✓ Bogen	12-17-1991	
		5,311,426		✓ Donohue et al.	5-10-1994	
		5,316,452		✓ Bogen et al.	5-31-1994	
		5,418,138		✓ Miller et al.	5-23-1995	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
JWW		WO	89/01616		Arthur Harris	2-23-1989		
		JP	63082232		Toshiba Corp.	10-11-1989		X
		JP	63144871		Toshiba Corp.	12-19-1989		X
Examiner Signature	JWWarden					Date Considered	7/26/03	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC. 20231

